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* Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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1. **A micro optical flying head for a PCMCIA-sized optical data storage**

Seong-Hyok Kim; Youngjoo Yee; Junghoon Choi; Hyouk Kwon; Man-Hyo Ha; Changhoon Oh; Jong Uk Bu;
 Micro Electro Mechanical Systems, 2004. 17th IEEE International Conference on. (MEMS)
 2004 Page(s):85 - 88
 Digital Object Identifier 10.1109/MEMS.2004.1290528
[AbstractPlus](#) | Full Text: [PDF](#)(1484 KB) [IEEE CNF](#)

2. **Small form factor optical drive: miniaturized plastic high-NA objective and optical drive**

van der Aa, M.A.H.; van As, M.A.J.; Braun, A.L.; Hendriks, B.H.W.; Liedenbaum, C.T.H.; van Rompaey, B.; van
 Rosmalen, G.E.; Schleipen, J.J.H.B.; Borg, H.J.; Nijssse, G.J.P.; Nuijens, P.G.; van Aken, N.P.D.M.; Jutte, P.T.;
 Renckens, J.M.G.; van Steen, R.I.; Bramwell, S.; Stavely, P.;
 Optical Memory and Optical Data Storage Topical Meeting, 2002. International Symposium on
 7-11 July 2002 Page(s):251 - 253
 Digital Object Identifier 10.1109/OMODS.2002.1028631
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<u>L5</u>	L3 and (PCMCIA adj1 (slot or card))	218	<u>L5</u>
<u>L4</u>	L3 and PCMCIA	259	<u>L4</u>
<u>L3</u>	(optical adj1 (disk or disc)) same (computer near5 connect\$3)	3280	<u>L3</u>
<u>L2</u>	L1 and PCMCIA	2299	<u>L2</u>
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L7 L6 same control\$4

57 L7

L6 L3 same (PCMCIA adj1 (slot or card))

168 L6

L5 L3 and (PCMCIA adj1 (slot or card))

218 L5

L4 L3 and PCMCIA

259 L4

L3 (optical adj1 (disk or disc)) same (computer near5 connect\$3)

3280 L3

L2 L1 and PCMCIA

2299 L2

L1 (optical adj1 (disk or disc)) same computer

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<u>L4</u>	369/\$5.ccls. and (PCMCIA same slot)	23	<u>L4</u>
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<u>L3</u>	11 and slot	38	<u>L3</u>
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<u>L2</u>	11 and computer	61	<u>L2</u>
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<u>L1</u>	369/\$5.ccls. and PCMCIA	62	<u>L1</u>
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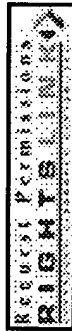
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A micro optical flying head for a PCMCIA-sized optical data storage

Seong-Hyuk Kim, Youngsoo Yee, Jungilsoo Choi, Hyounk Kwon, Man-Hyo Ha, Changhoon Oh, Jong-Uk Bu
Devices & Mater. Lab., LG Electron. Inst. of Technol., Seoul, South Korea

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Abstract

A micro optical flying head is presented for high-density **PCMCIA**-sized small form factor (SFF) optical data storage. It is composed of a high numerical-aperture (NA) objective lens, a micro lens actuator for adjusting the position of the lens to optimize the focal point to the recording layer of an **optical disk**, and an integrated air-bearing surface for flying over the spinning disk. The overall size of the fabricated micro optical flying head, assembled with high NA (0.85) objective lens, is as small as 3 mm/spl times/1.6 mm/spl times/0.5 mm (in length/spl times/width/spl times/thickness), which makes it suitable for the optical data storage device of mobile applications. Also, a basic operation of a **PCMCIA** type II optical drive prototype including the micro optical flying head is tested and presented.

Index Terms

Inspe

Controlled Indexing

disc drives, memory cards, microactuators, microlenses, optical disc storage, optical fabrication

Non-controlled Indexing

NA, Personal Computer Memory Card International Association, high density **PCMCIA**, integrated air bearing surface, micro lens actuator, micro optical flying head, numerical aperture, objective lens, optical data storage device, optical drive prototype, spinning disk

Author Keywords

Not Available

References

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Citing Documents

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